## PATENT COOPERATION TREATY

# **PCT**

# TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference <b>F-1163</b>   |  |                      | FOR FURTHER AC             | CTION                     | See Form PCT/IPEA/416                |  |  |  |
|---|--|----------------------|----------------------------|---------------------------|--------------------------------------|--|--|--|
| International application No.   |  |                      | International filing date  |                           | Priority date (day/month/year)       |  |  |  |
| PCT/JP2004/016944   |  |                      | 15.11.2004                 | <u>l</u>                  | 18.11.2003                           |  |  |  |
| International Patent Classification (IPC) or national classification and IPC  |  |                      |                            |                           |                                      |  |  |  |
| C08F32/08   |  |                      |                            |                           |                                      |  |  |  |
| Applicant   |  |                      |                            |                           |                                      |  |  |  |
| JSR   | JSR Corporation  |                      |                            |                           |                                      |  |  |  |
|   |  |                      |                            |                           |                                      |  |  |  |
| <ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol> |  |                      |                            |                           |                                      |  |  |  |
| 2.  | This REPORT con  | nsists of a total of | 3                          | sheets, including         | this cover sheet.                    |  |  |  |
| 3.  |  | _                    | NNEXES, comprising:        |                           |                                      |  |  |  |
|   | a. (sent t   | o the applicant and  | to the International Rur   | eau) a total of 3         | sheets, as follows:                  |  |  |  |
| a. (sent to the applicant and to the International Bureau) a total of 3 sheets, a sheets of the description, claims and/or drawings which have been amended and are the basis for this  |  |                      |                            |                           |                                      |  |  |  |
|   | sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).   |                      |                            |                           |                                      |  |  |  |
|   | sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental |                      |                            |                           |                                      |  |  |  |
|   | Box.   |                      |                            |                           |                                      |  |  |  |
|   | b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))   |                      |                            |                           |                                      |  |  |  |
|   | , containing a sequence listing and/or tables  |                      |                            |                           |                                      |  |  |  |
| related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see<br>Section 802 of the Administrative Instructions).   |  |                      |                            |                           |                                      |  |  |  |
| 4.  | 4. This report contains indications relating to the following items:   |                      |                            |                           |                                      |  |  |  |
|   | Box No. I  | Basis of the         | report                     |                           |                                      |  |  |  |
|   | Box No. I  | I Priority           |                            |                           |                                      |  |  |  |
|   | Box No. I  | II Non-establis      | shment of opinion with r   | egard to novelty, inventi | ve step and industrial applicability |  |  |  |
|   | Box No. I  | V Lack of unit       | y of invention             |                           |                                      |  |  |  |
|   | Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement   |                      |                            |                           |                                      |  |  |  |
|   | Box No. V  | /I Certain docu      | uments cited               |                           |                                      |  |  |  |
|   | Box No. V  | /II Certain defe     | cts in the international a | pplication                |                                      |  |  |  |
|   | Box No. VIII Certain observations on the international application   |                      |                            |                           |                                      |  |  |  |
| Date of submission of the demand Date of completion of this report  |  |                      |                            |                           | s report                             |  |  |  |
|   |  |                      |                            | <del></del>               | •                                    |  |  |  |
| Name and mailing address of the IPEA/JP   |  |                      |                            | Authorized officer        |                                      |  |  |  |
|   |  |                      |                            |                           |                                      |  |  |  |
|   |  |                      |                            |                           |                                      |  |  |  |
| Facsimile No.   |  |                      |                            | Telephone No              |                                      |  |  |  |

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/016944

| Box | No. I       | I Basis of the report  |  |  |  |  |  |
|-----|-------------|--|--|--|--|--|--|
| 1.  |             | th regard to the language, this report is based on the internation icated under this item.   | al application in the language in which it was filed, unless otherwise |  |  |  |  |
|     |             | which is the language of a translation furnished for the purposition international search (Rule 12.3 and 23.1(b))  publication of the international application (Rule 12.4)  |  |  |  |  |  |
| 2.  | rece        | international preliminary examination (Rule 55.2 and/or 55.3)  With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the ecceiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to his report):  the international application as originally filed/furnished  the description: |  |  |  |  |  |
|     |             |  | as originally filed/furnished received by this Authority on            |  |  |  |  |
|     |             | pages*   | received by this Authority on  |  |  |  |  |
|     | $\boxtimes$ | the claims:  |  |  |  |  |  |
|     |             | nos.   | as originally filed/furnished  |  |  |  |  |
|     |             | nos.*  | as amended (together with any statement) under Article 19              |  |  |  |  |
|     |             | nos.* 1,3,6-9,13   | received by this Authority on 27.06.2005                               |  |  |  |  |
|     |             | nos.*  | received by this Authority on  |  |  |  |  |
|     | $\boxtimes$ | the drawings:  |  |  |  |  |  |
|     |             | sheets fig. 1  | as originally filed/furnished  |  |  |  |  |
|     |             | sheets*  | received by this Authority on  |  |  |  |  |
|     |             | sheets*  | received by this Authority on  |  |  |  |  |
|     |             | a sequence listing and/or any related table(s) – see Suppleme  | ntal Box Relating to Sequence Listing.                                 |  |  |  |  |
| 3.  | $\boxtimes$ | The amendments have resulted in the cancellation of:   | he amendments have resulted in the cancellation of:                    |  |  |  |  |
|     |             | the description, pages   |  |  |  |  |  |
|     |             | the claims, nos 2,4-5,10-12  |  |  |  |  |  |
|     |             | the drawings, sheets/figs  |  |  |  |  |  |
|     |             | the sequence listing (specify):  |  |  |  |  |  |
|     |             |  |  |  |  |  |  |
| 4.  |             | his report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since ey have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).   |  |  |  |  |  |
|     |             | the description, pages   |  |  |  |  |  |
|     |             | the claims, nos.   |  |  |  |  |  |
|     |             | the drawings, sheets/figs  |  |  |  |  |  |
|     |             | the sequence listing (specify):  |  |  |  |  |  |
|     |             | any table(s) related to sequence listing (specify):  |  |  |  |  |  |
| *   | If ite      | tem 4 applies, some or all of those sheets may be marked "supe   | rseded."   |  |  |  |  |

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

### 2. Citations and explanations (Rule 70.7)

Document 1: JP 2001-516804 A (The B. F. Goodrich Co.), 02

October 2001, claims and paragraphs [0051],

[0107] to [0113], [0201] to [0210] and

[0292] & WO 1999/014635 A1 & EP 1021750 A1

The inventions set forth in claims 1, 3 and 6 to 9 are disclosed in document 1 cited in the international search report; therefore, the inventions in question lack novelty and do not involve an inventive step.

That is to say, claims 1, 3 and 6 to 9 do not specify the binding site of the structural unit within the copolymer, and thus it is impossible to differentiate the inventions set forth in claims 1, 3 and 6 to 9 from the polycyclic polymers that are disclosed in document 1.

The invention set forth in claim 13 does not involve an inventive step in the light of document 1. It would have been easy for a person skilled in the art to conceive of subjecting the acid-labile groups of the polycyclic polymers disclosed in document 1 to a hydrolysis process.